Saxe

[45]

Oct. 4, 1983

[54]		ALVE SUSPENSION CONTAI CARBON LIQUID	NING
[75]	Inventor:	Robert L. Saxe, New York, N	.Y.
[73]	Assignee:	Research Frontiers Incorporate Plainview, N.Y.	ed,
[21]	Appl. No.:	252,757	
[22]	Filed:	Jan. 16, 1981	
	U.S. Cl 252/583		2/582; 50/397 5, 589;
[56]		References Cited	
U.S. PATENT DOCUMENTS			
		1981 Saxe 3 1981 Saxe 3	
FOREIGN PATENT DOCUMENTS			
5	2391767 1/1 3-144895 12/1	1979 France	
OTHER PUBLICATIONS			

Wertheim, Textbook of Organic Chemistry, 3rd Ed.,

McGraw-Hill Book Co., Inc., New York, 1951, pp. 736 and 737.

Primary Examiner—Leland A. Sebastian Attorney, Agent, or Firm—Jacobs & Jacobs

[57] ABSTRACT

In a light valve, comprising a cell containing a suspension of particles in a liquid suspending medium, the improvement wherein said light valve suspension comprises particles of a perhalide of an alkaloid acid salt or a light-polarizing metal halide or perhalide suspended in said liquid suspending medium and a protective polymer effective to inhibit agglomeration of said particles dissolved in said liquid suspending medium, said liquid suspending medium comprising an electrically resistive, inert, low molecular weight, liquid fluorocarbon polymer having a specific gravity at room temperature of at least about 1.5 and having at least about 50% of its atoms constituted by halogen atoms, at least 60% of said halogen atoms being fluorine and the balance chlorine and/or bromine, and an electrically resistive organic liquid miscible with the fluorocarbon liquid, said fluid suspending medium being operable to suspend said particles in substantial gravitational equilibrium.

26 Claims, No Drawings